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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/735,885 | 12/13/2000 | Rittwik Jana | 2000-0165 | 1038 |

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| EXAMINER | |
|-------------------------|--------------|
| PEREZ GUTIERREZ, RAFAEL | |
| ART UNIT | PAPER NUMBER |

2686

DATE MAILED: 03/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/735,885

Applicant(s)

Jana et al.

Examiner

Rafael Perez-Gutierrez

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on December 13, 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

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DETAILED ACTION

Drawings

1. New formal drawings are required in this application. See the attached Notice of Draftsperson's Patent Drawing Review for appropriate corrections.
2. The drawings are objected to because of the following minor informalities:
 - a) On **figure 3 step 302** and on **figure 4 step 402**, delete the foreign language character after "SUBSCRIBER"; and
 - b) On **figure 4 step 403**, delete the foreign language character after "MS".
3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference number not mentioned in the description: On **figure 5 step 507**, reference number **507** is not mentioned in the description. A proposed drawing correction, corrected drawing, or amendment to the specification to add the reference number in the description is required in reply to the present Office Action.
4. Applicant is **REQUIRED** to submit a proposed drawing correction or corrected drawings or arguments therefor in reply to this Office Action. If a response to the present Office Action fails to include proper drawing corrections or corrected drawings or arguments therefor, the response can be held **NON-RESPONSIVE** and/or the application could be **ABANDONED** since the corrections to the drawings are no longer held in abeyance.

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Specification

5. The disclosure is objected to because of the following informalities:
- a) In the title, replace "SUBSCIBERS" with --SUBSCRIBERS--;
 - b) In the brief description of the drawings, the brief description of **figure 6** is missing;
- and
- c) On **page 8 line 143**, insert --.-- after "server" in order to properly end the sentence.

Appropriate correction is required.

Claim Objections

6. **Claims 2 and 5-7** are objected to because of the following informalities:
- a) On **line 2 of claims 2 and 5**, insert --.-- ^{after} before "subscriber"; ?
 - b) On **line 8 of claim 6**, replace "location" with --presence-- after "process" since presence information is what is being process; and
 - c) On **line 10 of claim 7**, replace "location" with --presence-- after "process" since presence information is what is being process.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

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basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless -- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by **Verdonk (U.S. Patent # 6,330,454 B1)**.

Consider **claim 1**, Verdonk clearly shows and discloses a location (status) information service for a wireless communication system 100 (mobile telecommunication network) (abstract and figure 1) comprising:

a service control point (SCP) 142 (customer care infrastructure) in communication with the wireless communication system 100 (mobile telecommunication network) (figure 1) and adapted to answer location (status) information requests (queries) (abstract, figures 1, column 1 lines 16-21, column 2 lines 29-59, and column 5 lines 2-59); and

a customer server 140 (subscriber status information server) adapted for use with the SCP 142 (customer care infrastructure) (figure 1) and capable of issuing location (status) information requests (queries) to the SCP 142 (customer care infrastructure) (abstract, figures 1 and 2, column 1 lines 16-21, and column 4 line 39 - column 5 line 59).

Consider **claim 2**, and **as applied to claim 1 above**, Verdonk further discloses that the location (status) information comprises information indicating location of a mobile unit 128, 130, 132 (subscriber) (abstract, figures 1 and 2, column 1 lines 16-21, column 2 lines 29-59, column 5 lines 33-59, and column 6 line 60 - column 7 line 6).

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Consider **claim 3**, and **as applied to claim 2 above**, Verdonk also shows and discloses that the SCP 142 (customer care infrastructure) is adapted to:

parse a location (status) information request (query) for a mobile unit 128, 130, 132 (subscriber) information (inherent since the SCP 142, upon receiving the request (query) that includes a mobile identification number (MIN) of a mobile unit 128, 130, 132 (subscriber), determines the home location register (HLR) or the serving mobile switching center (MSC) of the mobile unit 128, 130, 132 (subscriber) in question based upon said MIN (figure 2 steps 202 and 204, column 5 lines 2-13 and 21-26, and column 6 lines 44-53);

determine a mobile unit's 128, 130, 132 (subscriber's) HLR from the mobile unit 128, 130, 132 (subscriber) information (abstract, figure 2 steps 202 and 204, column 2 lines 33-36, column 5 lines 21-26, and column 6 lines 44-53);

requests (query) the mobile unit's 128, 130, 132 (subscriber's) HLR to identify the MSC (mobile telephone switching office (MTSO)) on which the mobile unit 128, 130, 132 (subscriber) is active (abstract, figure 2 steps 204 and 206, column 2 lines 33-39, column 5 lines 21-37, and column 6 lines 44-60);

issue a location request (call trace query, read in accordance with Applicant's specification) to the MSC (MTSO) (abstract, figure 2 steps 202-206, column 2 lines 33-48, column 5 lines 33-55, and column 6 lines 54-65); and

receive and process the location information from the MSC (MTSO) (abstract, figure 2 steps 208-210, figure 3, column 2 lines 49-59, column 5 line 55-59, column 6 line 65 - column 7 line 6, column 7 lines 26-30).

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Consider **claim 4**, and **as applied to claim 2 above**, Verdonk also shows and discloses that the SCP 142 (customer care infrastructure) is adapted to:

parse a location (status) information request (query) for a mobile unit 128, 130, 132 (subscriber) information (inherent since the SCP 142, upon receiving the request (query) that includes a mobile identification number (MIN) of a mobile unit 128, 130, 132 (subscriber), determines the home location register (HLR) or the serving mobile switching center (MSC) of the mobile unit 128, 130, 132 (subscriber) in question based upon said MIN (figure 2 steps 202 and 204, column 5 lines 2-13 and 21-26, and column 6 lines 44-53);

determine a mobile unit's 128, 130, 132 (subscriber's) HLR from the mobile unit 128, 130, 132 (subscriber) information (abstract, figure 2 steps 202 and 204, column 2 lines 33-36, column 5 lines 21-26, and column 6 lines 44-53);

request (query) the mobile unit's 128, 130, 132 (subscriber's) HLR to identify the MSC (mobile telephone switching office (MTSO)) on which the mobile unit 128, 130, 132 (subscriber) is active (abstract, figure 2 steps 204 and 206, column 2 lines 33-39, column 5 lines 21-37, and column 6 lines 44-60);

request (query) a visitor location register (VLR) at the MSC (MTSO) (abstract, figure 3 steps 302 and 304, column 2 lines 40-48, column 5 lines 38-46, column 5 line 64 - column 6 line 2, and column 7 lines 20-26);

receive and process the location information from the MSC (MTSO) (abstract, figure 2 steps 208-210, figure 3, column 2 lines 49-59, column 5 line 55-59, column 6 line 65 - column 7 line 6, column 7 lines 26-30).

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Consider **claim 5**, and **as applied to claim 1 above**, Verdonk further discloses that the location (status) information comprises information indicating the current location (presence, read in accordance with Applicant's specification) of a mobile unit 128, 130, 132 (subscriber) (i.e., by paging the mobile unit 128, 130, 132 (subscriber) and by the mobile unit 128, 130, 132 (subscriber) returning a page response the presence of the mobile unit 128, 130, 132 (subscriber) in the network is effectively determined (abstract, figures 1-3, column 2 lines 40-48, column 5 lines 13-16, 26-32, and 49-59, column 6 lines 2-6, column 6 line 56 - column 7 line 6, column 7 lines 15-18 and 31-48, and column 8 lines 17-41)).

Consider **claim 6**, and **as applied to claim 5 above**, Verdonk also shows and discloses that the SCP 142 (customer care infrastructure) is adapted to:

parse a location (status) information request (query) for a mobile unit 128, 130, 132 (subscriber) information (inherent since the SCP 142, upon receiving the request (query) that includes a mobile identification number (MIN) of a mobile unit 128, 130, 132 (subscriber), determines the home location register (HLR) or the serving mobile switching center (MSC) of the mobile unit 128, 130, 132 (subscriber) in question based upon said MIN (figure 2 steps 202 and 204, column 5 lines 2-13 and 21-26, and column 6 lines 44-53);

determine a mobile unit's 128, 130, 132 (subscriber's) HLR from the mobile unit 128, 130, 132 (subscriber) information (abstract, figure 2 steps 202 and 204, column 2 lines 33-36, column 5 lines 21-26, and column 6 lines 44-53);

requests (query) the mobile unit's 128, 130, 132 (subscriber's) HLR for the mobile unit 128, 130, 132 (subscriber) current location (presence) (abstract, figure 2 steps 204 and 206,

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column 2 lines 33-49, column 5 lines 21-37 and 49-59, column 6 lines 2-6, column 6 line 44 - column 7 line 6, and column 7 lines 31-48); and

receive and process the current location (presence) information from the mobile unit's 128, 130, 132 HLR (abstract, figure 2 steps 208-210, figure 3, column 2 lines 49-59, column 5 line 55-59, column 6 line 54 - column 7 line 6, column 7 lines 26-48, and column 8 lines 17-41).

Consider **claim 7**, and **as applied to claim 5 above**, Verdonk also shows and discloses that the SCP 142 (customer care infrastructure) is adapted to:

parse a location (status) information request (query) for a mobile unit 128, 130, 132 (subscriber) information (inherent since the SCP 142, upon receiving the request (query) that includes a mobile identification number (MIN) of a mobile unit 128, 130, 132 (subscriber), determines the home location register (HLR) or the serving mobile switching center (MSC) of the mobile unit 128, 130, 132 (subscriber) in question based upon said MIN (figure 2 steps 202 and 204, column 5 lines 2-13 and 21-26, and column 6 lines 44-53);

determine a mobile unit's 128, 130, 132 (subscriber's) HLR from the mobile unit 128, 130, 132 (subscriber) information (abstract, figure 2 steps 202 and 204, column 2 lines 33-36, column 5 lines 21-26, and column 6 lines 44-53);

requests (query) the mobile unit's 128, 130, 132 (subscriber's) HLR to identify the MSC (mobile telephone switching office (MTSO)) on which the mobile unit 128, 130, 132 (subscriber) is active (abstract, figure 2 steps 204 and 206, column 2 lines 33-39, column 5 lines 21-37, and column 6 lines 44-60);

issue a current location request (presence information query) to the MSC (MTSO)

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(abstract, figure 2 steps 202-206, figure 3, column 2 lines 33-49, column 5 lines 21-37 and 49-59, column 6 lines 2-6, column 6 line 44 - column 7 line 6, and column 7 lines 31-48); and

receive and process the current location (presence) information from the MSC (MTSO)

(abstract, figure 2 steps 208-210, figure 3, column 2 lines 49-59, column 5 line 55-59, column 6 line 65 - column 7 line 6, column 7 lines 26-48, and column 8 lines 17-41).

Conclusion

8. Any response to this Office Action should be **faxed to (703) 872-9306 or mailed to:**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Crystal Park II
2021 Crystal Drive
Arlington, VA 22202
Sixth Floor (Receptionist)

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rafael Perez-Gutierrez whose telephone number is (703) 308-8996. The Examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

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supervisor, Marsha D. Banks-Harold can be reached on (703) 305-4379. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700 or call customer service at (703) 306-0377.



Rafael Perez-Gutierrez
R.P.G./rpg **RAFAEL PEREZ-GUTIERREZ**
PATENT EXAMINER

March 15, 2004